

Rating Guide:					
	A	B	C	D	Blank
Good					
Fair					
Questionable					
Poor					
Insufficient Data					
	Polycarbonate	Brass	316 S.S.	304 S.S.	Aluminum
Acetaldehyde			A	A	B
Acetamide			A	B	
Acetate Solvent			A	A	A
Acetic Acid, Glacial		D	A	C	A
Acetic Acid, 20%	B	D	A	B	A
Acetic Acid, 80%	B	D	A	C	A
Acetic Acid	B	D	A	C	A
Acetic Anhydride			A	A	A
Acetone	D	A	A	A	A
Acetyl Bromide					
Acetyl Chloride (dry)			A	A	A
Acetylene		A	A	A	A
Acrylonitrile			A	A	B
Alcohols:					
Amyl	A	A	A	A	B
Benzyl			A	A	B
Butyl	B	A	A	A	B
Diacetone			A	A	A
Ethyl	B	A	A	A	B
Hexyl			A	A	A
Isobutyl			A	A	B
Isopropyl			A	A	B
Methyl			A	A	A
Octyl			A	A	A
Propyl			A	A	A
Aluminum Chloride, 20%			C	D	D
Aluminum Chloride			C	A	A
Aluminum Fluoride			C	B	B
Aluminum Hydroxide			C	A	B
Alum Potassium Sulfate, 10%			B	C	C
Alum Potassium Sulfate, 100%			B	C	C
Aluminum Salts					
Aluminum Sulfate			B	B	B
Alums			A		A
Amines			A	A	B
Amino Acids					
Ammonia, 10%			A	A	A
Ammonia, Anhydrous			A	A	A
Ammonia, Liquid		A	A	B	C
Ammonia Nitrate			A	A	C
Ammonium Acetate					
Ammonium Bifluoride				C	B
Ammonium Carbonate			B	B	B
Ammonium Casenite			A		
Ammonium Chloride			D	C	C
Ammonium Hydroxide	D	D	A	A	B
Ammonium Nitrate			A	A	B

Chemical Compatibility Chart



Ammonium Oxalate			A	A	
Ammonium Persulfate			B	A	D
Ammonium Phosphate, Dibasic			B	B	B
Ammonium Phosphate, Monobasic			C	B	B
Ammonium Phosphate, Tribasic			B	B	B
Ammonium Sulfate			B	B	A
Ammonium Thiosulfate			A		
Amyl Acetate			A	A	A
Amyl Alcohol	A		A	A	B
Amyl Chloride			A	A	A
Aniline			B	A	C
Aniline Hydrochloride			D	D	D
Anti-freeze	A		A		A
Antimony Trichloride			C	D	D
Aqua Regia (80%HCl, 20%HNO3)			D	D	D
Arochlor 1248			B	B	A
Aromatic Hydrocarbons			C		A
Arsenic Acid			A	A	D
Asphalt			A	B	A
Barium Carbonate			B	B	D
Barium Chloride			A	A	D
Barium Cyanide			A	A	C
Barium Hydroxide			B	B	D
Barium Nitrate			B	B	B
Barium Sulfate			B	B	B
Barium Sulfide			B	B	D
Beer	A	A	A	A	A
Beet Sugar Liquids			A	A	A
Benzaldehyde			B	B	B
Benzene	B	A	B	B	B
Benzene Sulfonic Acid			B	B	D
Benzoic Acid			B	B	B
Benzo			A	A	B
Bleaching Liquors					
Borax			A	A	B
Boric Acid	A	A	A	B	D
Brewery Slop			A		
Bromine	C	A	D	D	D
Butadiene			A	A	A
Butane			A	A	A
Butanol			A	A	B
Butter			A	C	A
Buttermilk			A	A	A
Butylene			A	A	A
Butyl Acetate			A	B	B
Butyl Ether					
Butyl Glycol					
Butyric Acid			B	B	B
Calcium Bisulfate			A		
Calcium Bisulfide			B	B	C
Calcium Bisulfite			A	B	D

Chemical Compatibility Chart



Calcium Carbonate			B	A	D
Calcium Chlorate					
Calcium Chloride	A	D	B	C	D
Calcium Hydroxide			B	C	C
Calcium Hypochlorite			B	C	D
Calcium Oxide			B	A	C
Calcium Sulfate			A	B	C
Calgon			A	A	
Cane Juice			A	A	B
Carbolic Acid			B	B	B
Carbon Bisulfide			B	A	B
Carbon Dioxide			A	A	B
Carbon Dioxide (dry)			A	A	B
Carbon Dioxide (wet)			A	A	B
Carbon Disulfide			B	A	A
Carbon Monoxide			A	A	A
Carbon Tetrachloride	C	A	B	B	D
Carbonated Water			A	A	A
Carbonic Acid			A	A	B
Catsup			A	A	D
Chloroacetic Acid			A	B	D
Chlorobromomethane					
Chloric Acid			C	D	D
Chlorinated Glue			A		
Chlorine, anhydrous liquid			C	C	D
Chlorine, dry		A	B	C	C
Chlorine Water	C	A	C	C	D
Chlorobenzene			B	A	A
Chloroform			A	B	B
Chlorosulfonic Acid			B	D	C
Chocolate Syrup			A	A	A
Chromic Acid, 5%		D	A	B	C
Chromic Acid, 10%		D	B	B	D
Chromic Acid, 30%		D	B	B	D
Chromic Acid, 50%	B	D	B	C	D
Chromium Salts					
Cider			A	A	B
Citric Acid	B	B	A	B	C
Citric Oils			A	A	C
Clorox			A	A	A
Coffee			A	A	A
Copper Chloride			D	D	D
Copper Cyanide			B	B	D
Copper Fluoborate			D	D	
Copper Nitrate			B	A	D
Copper Sulfate, 5%			B	B	D
Copper Sulfate, >5%			B	B	D
Cream			A	A	A
Cresols			A	A	A
Cresylic Acid			A	A	B
Cyanic Acid			A	A	

Chemical Compatibility Chart



Cycloalcohols					
Cycloalkanes					
Cycloalkanones					
Cyclohexane			A	A	A
Cyclohexanone			A	A	A
Detergents			A	A	B
Diacetone Alcohol			A	A	A
Dibutyl Phthalate					
Dichlorethane			B	B	
Dichlorofluoromethane					
Dichlorotetrafluoroethane					
Diesel Fuel			A	A	A
Diethylamine			B		B
Diethyl Ether					
Diethylene Glycol			A	A	B
Difluoromethane					
Dimethyl Ether					
Dimethylformamide					
Dimethyl Formamide			A	A	A
Dimethylsulfoxide					
Dioctylphthalate					
Dipylene Oxide			B	B	B
Dipropyl Ether					
Dyes			A	A	B
Epsom Salts			B	B	B
Ethane			A		
Ethanol					
Ethanolamine			A	A	B
Ether			B	B	B
Ethyl Acetate			B	B	B
Ethyl Chloride			A	A	B
Ethyl Sulfate			D		
Ethylene					
Ethylene Bromide			B	B	D
Ethylene Chloride		B	A	A	B
Ethylene Chlorohydrin			B		B
Ethylene Diamine			A	A	C
Ethylene Dichloride			A	A	B
Ethylene Glycol	A		A	A	B
Ethylene Oxide			C	C	D
Fatty Acids			A	B	A
Ferric Chloride			C	D	D
Ferric Nitrate			A	B	C
Ferric Sulfate			A	B	C
Ferrous Chloride			C	D	D
Ferrous Sulfate			B	B	A
Fluoboric Acid			C	B	D
Fluorinated Hydrocarbons					
Fluorine			C	C	D
Fluoriosilic Acid			B	C	C
Formaldehyde, 40%			A	A	B

Chemical Compatibility Chart



Formaldehyde, 100%			A	C	A
Formic Acid			C	B	B
Freon 1		A	A	C	
Freon 12		A		D	A
Freon 22		A			
Freon 113		A			
Freon TF		A			D
Fruit Juice			A		A
Fuel Oils			A	A	C
Furan Resin			A	A	A
Furfural			B	B	A
Gallic Acid			B	B	
Gasoline	C	A	A	A	C
Gelatin			A	A	A
Glucose			A	A	B
Glue, PVA			A	A	A
Glycerin			A	A	C
Glycolic Acid			A	A	A
Gold Monocyanide			A	A	
Grape Juice			A	A	
Grease			A		
Heptane	B		A	A	A
Hexamethylenetetramine					
Hexane	B		A	A	A
Honey			A		A
Hydraulic Oil (Petro)	A		A	A	A
Hydraulic Oil (Synthetic)	A		A	A	A
Hydrazine			A	A	
Hydrobromic Acid, 20%			D	D	D
Hydrobromic Acid, 100%			D	D	D
Hydrochloric Acid, Dry Gas	A		D	D	D
Hydrochloric Acid, 20%	A	D	D	D	D
Hydrochloric Acid, 37%		D	D	D	D
Hydrochloric Acid, 100%		D	D	D	D
Hydrocyanic Acid			B	B	B
Hydrocyanic Acid, gas					
Hydrofluoric Acid, 20%			D	D	D
Hydrofluoric Acid, 50%			D	D	D
Hydrofluoric Acid, 75%			D	D	D
Hydrofluoric Acid, 100%			B	B	D
Hydrofluosilicic Acid, 20%			B	C	D
Hydrofluosilicic Acid, 100%			C	D	D
Hydrogen Gas		A	A	A	A
Hydrogen Peroxide, 10%	A	B	B	B	A
Hydrogen Peroxide, 30%	A	B	B	B	A
Hydrogen Peroxide, 50%	A	B	A	B	A
Hydrogen Peroxide, 100%	A	B	A	B	A
Hydrogen Sulfide (wet)	A	A	C	C	B
Hydrogen Sulfide (dry)	A	A	B	C	B
Hydroquinone					
Hydroxyacetic Acid, 70%					

Chemical Compatibility Chart



Ink			C	C	
Iodine			C	C	A
Iodine (in alcohol)					B
Iodoform			B		A
Isocyanates, Aromatic					
Isooctane					
Isopropanol					
Isotane					D
Isopropyl Acetate			A	C	B
Isopropyl Ether	A		A	A	A
Jet Fuel			A	A	A
Kerosene		A	A	A	A
Ketones			A	A	A
Lacquers			A	A	A
Lacquer Thinners			A	A	A
Lactic Acid			B	B	B
Lard			A	A	A
Latex			A	A	A
Lead Acetate			B	B	D
Lead Sulfamate			C	C	C
Ligroin			A		D
Lime			A	A	D
Lithium Bromide					
Lithium Hydroxide			B	B	D
Lubricants	A		A	A	A
Magnesium Carbonate			A	A	B
Magnesium Chloride			A	B	D
Magnesium Hydroxide			A	B	C
Magnesium Nitrate			A	A	C
Magnesium Oxide			A		
Magnesium Salts					
Magnesium Sulfate			B	B	B
Maleic Acid			B	A	B
Maleic Anhydride					A
Malic Acid			A	A	B
Manganese Salts					
Mash			A		A
Mayonnaise			A	C	A
Melamine			D		
Mercuric Chloride			C	D	D
Mercuric Cyanide			B	B	D
Mercury			A	A	
Methane			A	A	A
Methanol			A	A	A
Methyl Acetate			A	A	A
Methyl Acrylate					
Methyl Acetone			A	A	A
Methyl Alcohol, 10%			A	A	A
Methyl Bromide			A	A	
Methyl Butyl Ketone			A		
Methyl Cellosolve	C		A	A	A

Chemical Compatibility Chart



Methyl Chloride	C	A	A	A	D
Methyl Dichloride					
Methyl Ethyl Ketone	C		A	A	A
Methyl Ethyl Ketone Peroxide					
Methyl Isobutyl Ketone			A	A	A
Methyl Isopropyl Ketone			A	A	
Methyl Methacrylate					
Methylamine			A		
Methylene Chloride	C		B		A
Milk			A	B	A
Mineral Spirits			A	A	A
Molasses			A	A	A
Monoethanolamine			B	A	B
Mustard			A	A	B
Naphtha	C		A	A	A
Naphthalene			A	A	B
Naphthenic Acids					
Natural Gas		A	A		
Nickel Chloride	C		C	D	D
Nickel Salts					
Nickel Sulfate			B	B	D
Nitrating Acid, <15%			C	C	D
Nitrating Acid, >15%			C	C	D
Nitric Acid, 5-10%	A	D	A	A	D
Nitric Acid, 20%	B	D	A	A	D
Nitric Acid, 50%	B	D	A	A	C
Nitric Acid, conc	C	D	A	A	A
Nitrogen Fertilizer					
Nitrous Acid			A	A	
Nitrous Oxide			B	B	B
Nitrobenzene			A	B	A
Nitrotoluene					
Oils:					
Aniline			A	A	D
Anise			A		
Bay			A		
Bone	B		A		
Castor			A	A	
Cinnamon			A	A	
Citric			A		A
Clove			A	A	B
Cocoa Nut			A	A	A
Cod Liver	B		A	A	A
Corn	A		A		A
Cotton Seed			A	A	A
Creosote	C		B	B	B
Diesel Fuel	A		A	A	A
Fuel Oils	B		A	A	C
Ginger			A	A	
Lemon			A	A	D
Linseed			A	A	B

Chemical Compatibility Chart



Mineral	B		A	A	A
Olive			A	A	A
Orange			A	A	A
Palm			A	A	
Peanut			A	A	D
Peppermint			A	A	D
Pine			A	A	
Rapeseed			A	A	
Rosin			A	A	B
Sesame Seed			A	A	
Silicone	B		A	B	A
Soybean			A	A	B
Sperm	B		A	A	
Tanning			A	A	
Transformer	B		A	A	A
Turbine	B		A	A	
Oleic Acid			B	B	B
Oleum, 25%			B	B	B
Oleum, 100%			B	B	B
Oxalic Acid			B	B	B
Ozone			A	B	B
Paint Solvents					
Palmatic Acid					
Paraffin			A	A	A
Pentane			C	C	A
Perchloric Acid					
Perchloroethylene			A	B	B
Petrolatum			A		
Petroleum					
Petroleum, ethers & salts					
Phenol, 10%			B	B	B
Phenol, Carbonic Acid			B	B	B
Phosphate solutions					
Phosphine					
Phosphoric Acid, <40%	A	D	B	A	C
Phosphoric Acid, >40%	A	D	B	A	B
Phosphoric Acid Anhydride	A	D			
Phosphoric Acid, crude	A	D	B	D	B
Phosphoric Acid, molten		D			
Photo Developer			A	C	
Phthalic Acid					
Phthalic Anhydride			A	A	A
Picric Acid			B	B	A
Plating Solutions:					
Antimony 130°F			A	A	A
Arsenic Plating 110°F			A	A	A
Reg Brass Bath 100°F			A	A	A
Hi Speed Brass Bath			A		A
Cu-Cd Bronze RT			A	A	A
Cu-Sn Bronze bath 160°F			A	A	A
Cu-Zn Bronze bath 100°F			A	A	A

Chemical Compatibility Chart



Cyanide bath 90°F			A		A
Fluoroborate bath 100°F			A	A	A
Chromic-Sulfuric bath			C		A
Fluosilicate bath			C		A
Fluoride bath 130°F			D		A
Black Chrome bath 115°F			C		A
Barrell Chrome bath 95°F			D		A
Cu Strike bath 120°F			A		
Rochelle Salt bath 150°F			A		A
Hi Speed bath 180°F			A		A
Cu Sulfate RT			D		A
Cu Fluoborate bath			D	A	A
Cu Pyrophosphate			A		A
Cu electrolysis					A
Gold Cyanide 150°F			A		
Gold - Neutral 75°F			C		
Gold - Acid 75°F			C		
Indium Sulfamate Plate RT			C		
Ferrous Chloride bath			D		
Ferrous Sulfate bath			C		
Ferrous Am Sulfate bath			C		
Sulfate-Chloride bath			D		
Fluoborate bath			D		
Sulfamate			D		
Lead Fluoborate plating			C		
Nickel - Watts type 115-160°F			C		
Nickel - Hi Chloride 130-160°F			C		
Nickel - Fluoborate 100-170°F			C		
Nickel - Sulfamate 100-140°F			C		
Nickel - Electrolysis 200°F					
Rhodium plate 120°F			D		
Silver plate 80-120°F			A		
Tin - Fluoborate plate 100°F			C		
Tin - Lead plate 100°F			C		
Zinc - Acid Chloride 140°F			D		
Zinc - Acid Sulfate bath 150°F			C		
Zinc - Acid Fluoborate bath RT			C		
Zinc - Alkaline Cyanide bath RT			A		
Polyols					
Potash			A	A	C
Potassium Bicarbonate			B	B	D
Potassium Bromide			B	C	B
Potassium Carbonate			B	B	D
Potassium Chlorate			B	B	B
Potassium Chloride	A	D	B	A	D
Potassium Chromate			B	B	B
Potassium Cyanide Solutions			B	B	D
Potassium Dichromate			B	B	B
Potassium Ferrocyanide			B	B	B
Potassium Hydroxide, caustic potash	C	B	B	B	D
Potassium Nitrate			B	B	B

Chemical Compatibility Chart



Potassium Permanganate			B	B	B
Potassium Sulfate			B	B	D
Potassium Sulfide			A	B	
Propane, liquified	A	A	A	A	A
Propylene Glycol			B	B	B
Pyridine			A	A	B
Pyrogallic Acid			B	B	B
Pyruvic Acid					
Rosins			A	A	B
Rum			A	A	
Rust Inhibitors			A	A	
Salad Dressings			A	A	B
Salicylic Acid					
Sea Water			A	C	B
Shellac, bleached			A	A	A
Shellac, orange			A	A	A
Silane					
Silicone			A	B	A
Silver Bromide			A	D	D
Silver Nitrate			B	B	D
Soap Solutions	B	A	A	A	C
Soda Ash					
Sodium Acetate			B	B	B
Sodium Aluminate			A	A	
Sodium Bicarbonate			B	A	D
Sodium Bisulfate			B	D	D
Sodium Bisulfite			B	B	D
Sodium Borate			B	C	C
Sodium Carbonate			A	B	D
Sodium Chlorate			B	B	C
Sodium Chloride	A	D	C	B	C
Sodium Chromate			B	B	B
Sodium Cyanide			A	B	D
Sodium Ferrocyanide					
Sodium Fluoride			D	D	B
Sodium Hydrogen Carbonate					
Sodium Hydrogen Sulfate					
Sodium Hydrosulfite					A
Sodium Hydroxide, 20%	D		A	B	D
Sodium Hydroxide, 50%	D		B	B	D
Sodium Hydroxide, 80%			C	B	D
Sodium hypochlorite, <20%			C	C	D
Sodium Hypochlorite, 100%			D	D	D
Sodium Hypophosphite					
Sodium Hyposulfate			A	A	D
Sodium Lignosulfonate					
Sodium Metaphosphate			A	A	C
Sodium Metasilicate			A	A	D
Sodium Nitrate			B	B	B
Sodium Nitrilotriacetate					
Sodium Oleate					

Chemical Compatibility Chart



Sodium Perborate			B	B	C
Sodium Peroxide			A	A	C
Sodium Polyphosphate			B	B	D
Sodium Silicate			A	B	D
Sodium Sulfate			B	B	A
Sodium Sulfide			B	D	D
Sodium Sulfite			B	A	C
Sodium Tetraborate			A	A	C
Sodium Thiosulfate			A	B	A
Sorghum			A	A	
Soy Sauce			A	A	A
Stannic Chloride			D	D	D
Stannic Fluoborate			A		
Stannous Chloride			A	C	D
Starch			A	A	A
Stearic Acid			A	B	B
Stoddard Solvent			A	A	A
Styrene			A	A	A
Sugar, liquids			A	A	A
Sulfate, liquors			B	D	D
Sulfur Chloride			D	D	D
Sulfur Dioxide	B	B	A	D	B
Sulfur Dioxide, dry			A	D	B
Sulfur Hexafluoride					
Sulfur Trioxide			C	A	A
Sulfur Trioxide, dry			A	D	A
Sulfuric Acid, <10%	A	D	B	D	D
Sulfuric Acid, 10-75%	A	D	D	D	D
Sulfuric Acid, 75-100%		D	D	C	D
Sulfuric Acid, hot conc		D	C	D	D
Sulfuric Acid, cold conc		D	B	C	B
Sulfurous Acid			B	B	B
Sulfuryl Chloride					
Tallow			A	A	A
Tannic Acid	B	A	A	B	C
Tanning Liquors			A	A	A
Tartaric Acid			C	C	B
Tetrachloroethane			A	B	C
Tetrachloroethylene			A		
Tetrachloromethane					
Tetrahydrofuran			A	A	
Tetralin					
Tetramethylenesulfone					
Tin Salts			D		D
Toluene	D		A	A	A
Tomato Juice			A	A	A
Trichloroacetic Acid			C	D	D
Trichloroethane			A	B	C
Trichloroethano					
Trichloroethylene			B	B	A
Trichloropropane			A	A	

Chemical Compatibility Chart

Trichlorotrifluoroethane					
Tricresylphosphate			A	B	D
Trietanalamine					
Triethylamine			A		
Trifluoroethano					
Trisodium Phosphate			B	A	D
Turpentine	B	A	A	A	A
Urea	A		A	A	B
Uric Acid			B	A	D
Urine			A	A	B
Varnish			A	A	A
Vegetable Juice			C	A	A
Vinegar			A	A	B
Vinyl Bromide					
Vinyl Chloride					
Vinyl Fluoride					
Water, Acid, Mine			A	A	C
Water, distilled			A	A	A
Water, fresh			A	A	B
Water, salt			B	B	B
Weed killers			A	A	C
Whey			A	A	B
Whiskey & Wines			A	A	C
White Liquor, pulp mill			A	B	
White Water, pulp mill			A	A	
Xylene			A	A	A
Zinc Bromide					
Zinc Chloride			D	D	D
Zinc Hydrosulfite			A	A	D
Zinc Iodide					
Zinc Nitrate					
Zinc Sulfate			B	B	D
Zinc Thiocyanate					

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800.382.2323 (toll free) 858.549.8708
858.549.9828 Mail@ExpressCorp.com

9155 Trade Place, San Diego, CA 92126 | ExpressCorp.com

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